

	L #	Search Text	DBs	Time Stamp	Hits
1	L1	yamamoto.in. and hiroshi.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:03	14591
2	L2	ohdaira.in. and toshimitsu.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:03	15
3	L3	L1 and L2	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:03	11

	L #	Search Text	DBs	Time Stamp	Hits
4	L4	sony.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:03	323695
5	L5	L3 and L4	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:04	6
6	L6	713/167.cccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:04	416

	L #	Search Text	DBs	Time Stamp	Hits
7	L7	713/167.ccls. and "dummy code"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:04	0
8	L8	713/167.ccls. and "dummy data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:04	1
9	L9	713/168.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:04	1910

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	713/168.ccls. and (dummy (code or data))	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:05	1879
11	L11	713/168.ccls. and (dummy code or data)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:05	1879
12	L12	380/201.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:05	1004

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	380/201.ccls. and "dummy code"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/08/02 19:05	1
14	L14	380/201.ccls. and "dummy data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/08/02 19:05	9
15	L15	380/44.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/08/02 19:06	907

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	380/44.ccls. and "dummy code"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:06	2
17	L17	380/44.ccls. and "dummy data"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:06	2
18	L18	(encrypted) adj (protective object) near (protect code) near (executable module)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:07	0

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	(encrypted) same(protective object) near (protect code) near (executable module)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/08/02 19:07	7
20	L20	(encrypted or enciphered or encoded) same (protective object) near (protect code) near (executable module)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/08/02 19:07	24
21	L21	(code) adj (writing) near (dummy data or dummy code) near (protect code)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TD B	2007/08/02 19:08	45

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	L20 and L21	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:08	0
23	L23	(protect code) near (random number)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:08	51000
24	L24	L21 and L23	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:08	9

	L #	Search Text	DBs	Time Stamp	Hits
25	L25	L24 and L20	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/08/02 19:08	0

# Interference Search

	L #	Search Text	DBs	Time Stamp	Hits
26	L26	encrypted AND protective AND object AND protect AND code.CLM.	US- PGPUB	2007/08/02 19:10	214
27	L27	encrypted AND protective AND object AND protect AND code AND storage AND encrypted.CLM.	US- PGPUB	2007/08/02 19:11	137
28	L28	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND invalidity.CLM.	US- PGPUB	2007/08/02 19:11	1
29	L29	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting.CLM.	US- PGPUB	2007/08/02 19:11	70
30	L30	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting AND code AND writing AND reading.CLM.	US- PGPUB	2007/08/02 19:11	42
31	L31	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting AND code AND writing AND reading AND executable AND module.CLM.	US- PGPUB	2007/08/02 19:11	11
32	L32	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting AND code AND writing AND reading AND executable AND module AND linking.CLM.	US- PGPUB	2007/08/02 19:12	2
33	L33	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting AND code AND writing AND reading AND executable AND module AND linking AND deleting.CLM.	US- PGPUB	2007/08/02 19:12	1

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	L #	Search Text	DBs	Time Stamp	Hits
34	L34	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting AND code AND writing AND reading AND executable AND module AND linking AND dummy AND data.CLM.	US- PGPUB	2007/08/02 19:12	4
35	L35	encrypted AND protective AND object AND protect AND code AND storage AND encrypted AND decrypting AND code AND writing AND reading AND executable AND module AND linking AND dummy AND data AND information AND processing.CLM.	US- PGPUB	2007/08/02 19:12	2

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dummy data, decrypt, protect code, encrypt, link "executable module"

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The **executable module** is generated by generating, with **decryption** of an ..... 6, the **protect code** applying process unit may add a first **dummy data** area ...

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United States Patent 20060048228 Kind Code: A1. [Link to this page](#): ..... And the security assurance authority 2 appends the **encrypted data** which has been ...

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6, the **protect code** applying process unit may add a first **dummy data** area 1 ..... the **encrypted protect code** contained in said **executable module** when said ...

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DLL: Dynamic Link Library. An **executable module** containing functions that ..... A private key is also used to **decrypt** messages that were **encrypted** with the ...

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(with target build\_all) to build the following **executable module**: ..... Add

**Encryption/Decryption Functions**. Since the DFA source **code** shipped from OSF ...

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addition to the **encryption/decryption** CDSA calls. It **links** explicitly against ..... a dynamically loadable **executable module** (for example, DLL) to ...

[h71000.www7.hp.com/doc/83final/BA554\\_90006/BA554\\_90006.pdf](http://h71000.www7.hp.com/doc/83final/BA554_90006/BA554_90006.pdf) - [Similar pages](#)**[GZIP] PaCkAgE DaTaStReAm MAzip 1 496 # end of header ...**

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See the file 'WHERE' for access to the **encryption code**. **Decryption** can be made with unzip 5.0p1 or later, or with zipcloak. All bug reports or patches ...

[ftp://ftp.sunfreeware.com/pub/freeware/intel/2.6/zip-2.2-sol26-intel-local.gz](http://ftp.sunfreeware.com/pub/freeware/intel/2.6/zip-2.2-sol26-intel-local.gz) - [Similar pages](#)**Perl lietuviškai.**

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5.8 **Data Encryption/Decryption** using Public/Private Key ..... 87 ..... remote process

components are implemented as stand-alone **executable module** ...

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**1 Cryptography and data security**

Dorothy Elizabeth Robling Denning  
 January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: pdf(19.47 MB) Additional Information: full citation, abstract, references, cited by, index terms

**From the Preface (See Front Matter for full Preface)**

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to prolific practical data processing systems in the 1980s. As we have come to rely on these systems to process and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communication systems from unauthorized disclosure ...

**2 Workshop papers: On instrumenting obfuscated java bytecode with aspects**

Kung Chen, Ju-Bing Chen  
 May 2006 Proceedings of the 2006 international workshop on Software engineering for secure systems SESS '06

Publisher: ACM Press

Full text available: pdf(92.02 KB) Additional Information: full citation, abstract, references, citations, index terms

Code obfuscators are widely used tools for protecting commercial Java software. Advanced obfuscation techniques make de-compiled Java programs not re-compilable, thus greatly raising the barrier of instrumenting Java bytecode for malicious purpose. However, we have found that the aspect-oriented programming language AspectJ can be abused to overcome advanced code obfuscation and to modify obfuscated Java software effectively using its bytecode instrumentation mechanism. This paper describes such ...

**Keywords:** AspectJ, Java, aspect-oriented programming, code obfuscation, software protection

**3 Software protection and simulation on oblivious RAMs**

 Oded Goldreich, Rafail Ostrovsky  
May 1996 **Journal of the ACM (JACM)**, Volume 43 Issue 3

Publisher: ACM Press

Full text available:  pdf(3.44 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software protection is one of the most important issues concerning computer practice. There exist many heuristics and ad-hoc methods for protection, but the problem as a whole has not received the theoretical treatment it deserves. In this paper, we provide theoretical treatment of software protection. We reduce the problem of software protection to the problem of efficient simulation on oblivious RAM. A machine is oblivious if the sequence in wh ...

**Keywords:** pseudorandom functions, simulation of random access machines, software protection

#### 4 Encryption-based protection for interactive user/computer communication

 Stephen Thomas Kent  
September 1977 **Proceedings of the fifth symposium on Data communications SIGCOMM '77**

Publisher: ACM Press

Full text available:  pdf(846.33 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This paper develops a virtual connection model, complete with intruder, for interactive terminal-host communication and presents a set of protection goals that characterize the security that can be provided for a physically unsecured connection. Fundamental requirements for protocols that achieve these goals and the role of encryption in the design of such protocols are examined. Functional and security constraints on positioning of protection protocols in a communication system and the imp ...

#### 5 (How) can mobile agents do secure electronic transactions on untrusted hosts? A

 survey of the security issues and the current solutions  
Joris Claessens, Bart Preneel, Joos Vandewalle  
February 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 1

Publisher: ACM Press

Full text available:  pdf(197.96 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article investigates if and how mobile agents can execute secure electronic transactions on untrusted hosts. An overview of the security issues of mobile agents is first given. The problem of untrusted (i.e., potentially malicious) hosts is one of these issues, and appears to be the most difficult to solve. The current approaches to counter this problem are evaluated, and their relevance for secure electronic transactions is discussed. In particular, a state-of-the-art survey of mobile agen ...

**Keywords:** Mobile agent security, electronic transactions, malicious hosts

#### 6 A tentative approach to constructing tamper-resistant software

 Masahiro Mambo, Takanori Murayama, Eiji Okamoto  
January 1998 **Proceedings of the 1997 workshop on New security paradigms NSPW '97**

Publisher: ACM Press

Full text available:  pdf(1.05 MB)

Additional Information: [full citation](#), [references](#), [index terms](#)

7 Security: A framework for trusted instruction execution via basic block signature verification

 Milena Milenković, Aleksandar Milenković, Emil Jovanov  
April 2004 **Proceedings of the 42nd annual Southeast regional conference ACM-SE 42**

**Publisher:** ACM Press

Full text available:  pdf(276.25 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

Most of today's computers are connected to the Internet or at least to a local network, exposing system vulnerabilities to the potential attackers. One of the attackers' goals is the execution of the unauthorized code. In this paper we propose a framework that will allow execution of the trusted code only and prevent malicious code from executing. The proposed framework relies on the run-time verification of basic block signatures. The basic block signatures are generated during a trusted instal ...

**Keywords:** computer security, intrusion detection, trusted execution

8 Masking the Energy Behavior of DES Encryption

H. Saputra, N. Vijaykrishnan, M. Kandemir, M. J. Irwin, R. Brooks, S. Kim, W. Zhang  
March 2003 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 1 DATE '03**

**Publisher:** IEEE Computer Society

Full text available:  pdf(264.41 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)  
 Publisher Site

Smart cards are vulnerable to both invasive and non-invasive attacks. Specifically, non-invasive attacks using power and timing measurements to extract the cryptographic key has drawn a lot of negative publicity for smart card usage. The power measurement techniques rely on the data-dependent energy behavior of the underlying system. Further, power analysis can be used to identify the specific portions of the program being executed to induce timing glitches that may in turn help to bypass key ch ...

9 Informal tool demonstrations: A tool for analyzing and detecting malicious mobile code

 Akira Mori, Tomonori Izumida, Toshimi Sawada, Tadashi Inoue  
May 2006 **Proceeding of the 28th international conference on Software engineering ICSE '06**

**Publisher:** ACM Press

Full text available:  pdf(99.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

We present a tool for analysis and detection of malicious mobile code such as computer viruses and internet worms based on the combined use of code simulation, static code analysis, and OS execution emulation. Unlike traditional anti-virus methods, the tool directly inspects the code and identifies commonly found malicious behaviors such as mass mailing, self duplication, and registry overwrite without relying on ``pattern files'' that contain ``signatures'' of previously captured samples. The p ...

**Keywords:** OS execution emulation, code simulation, malicious code detection, static code analysis

10 Security on the move: indirect authentication using Kerberos

 Armando Fox, Steven D. Gribble  
November 1996 **Proceedings of the 2nd annual international conference on Mobile**

**computing and networking MobiCom '96**

**Publisher:** ACM Press

Full text available:  pdf(1.34 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)



**11 Distributed operating systems**

 Andrew S. Tanenbaum, Robbert Van Renesse  
December 1985 **ACM Computing Surveys (CSUR)**, Volume 17 Issue 4

**Publisher:** ACM Press

Full text available:  pdf(5.49 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Distributed operating systems have many aspects in common with centralized ones, but they also differ in certain ways. This paper is intended as an introduction to distributed operating systems, and especially to current university research about them. After a discussion of what constitutes a distributed operating system and how it is distinguished from a computer network, various key design issues are discussed. Then several examples of current research projects are examined in some detail ...



**12 Security & privacy: SmartSiren: virus detection and alert for smartphones**

 Jerry Cheng, Starsky H.Y. Wong, Hao Yang, Songwu Lu  
June 2007 **Proceedings of the 5th international conference on Mobile systems, applications and services MobiSys '07**

**Publisher:** ACM Press

Full text available:  pdf(534.00 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Smartphones have recently become increasingly popular because they provide "all-in-one" convenience by integrating traditional mobile phones with handheld computing devices. However, the flexibility of running third-party softwares also leaves the smartphones open to malicious viruses. In fact, hundreds of smartphone viruses have emerged in the past two years, which can quickly spread through various means such as SMS/MMS, Bluetooth and traditional IP-based applications. Our own implementatio ...

**Keywords:** alert, privacy, security, smartphone, virus detection



**13 Security on FPGAs: State-of-the-art implementations and attacks**

 Thomas Wollinger, Jorge Guajardo, Christof Paar  
August 2004 **ACM Transactions on Embedded Computing Systems (TECS)**, Volume 3 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(296.79 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In the last decade, it has become apparent that embedded systems are integral parts of our every day lives. The wireless nature of many embedded applications as well as their omnipresence has made the need for security and privacy preserving mechanisms particularly important. Thus, as field programmable gate arrays (FPGAs) become integral parts of embedded systems, it is imperative to consider their security as a whole. This contribution provides a state-of-the-art description of security issues ...

**Keywords:** Cryptography, FPGA, attacks, cryptographic applications, reconfigurable hardware, reverse engineering, security



**14 Defensive techniques: SCUBA: Secure Code Update By Attestation in sensor networks**

Arvind Seshadri, Mark Luk, Adrian Perrig, Leendert van Doorn, Pradeep Khosla  
September 2006 **Proceedings of the 5th ACM workshop on Wireless security WiSe '06**

Publisher: ACM Press

Full text available: [pdf\(194.86 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents SCUBA (Secure Code Update By Attestation), for detecting and recovering compromised nodes in sensor networks. The SCUBA protocol enables the design of a sensor network that can detect compromised nodes without false negatives, and either repair them through code updates, or revoke the compromised nodes. The SCUBA protocol represents a promising approach for designing secure sensor networks by proposing a first approach for automatic recovery of compromised sensor nodes. The S ...

**Keywords:** externally-verifiable code execution, secure code update, self-checksumming code, software-based attestation

**15 Foundations and applications for secure triggers**

Ariel Futoransky, Emiliano Kargieman, Carlos Sarraute, Ariel Waissbein  
February 2006 **ACM Transactions on Information and System Security (TISSEC)**, Volume 9 Issue 1

Publisher: ACM Press

Full text available: [pdf\(276.02 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Imagine there is certain content we want to maintain private until some particular event occurs, when we want to have it automatically disclosed. Suppose, furthermore, that we want this done in a (possibly) malicious host. Say the confidential content is a piece of code belonging to a computer program that should remain ciphered and then "be triggered" (i.e., deciphered and executed) when the underlying system satisfies a preselected condition, which must remain secret after code ins ...

**Keywords:** Malicious host problem, mobile code security, obfuscation, secure triggers, universally composable security

**16 A functional taxonomy for software watermarking**

Jasvir Nagra, Clark Thomborson, Christian Collberg  
January 2002 **Australian Computer Science Communications , Proceedings of the twenty-fifth Australasian conference on Computer science - Volume 4 ACSC '02**, Volume 24 Issue 1

Publisher: Australian Computer Society, Inc., IEEE Computer Society Press

Full text available: [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Despite the recent surge of interest in digital watermarking technology from the research community, we lack a comprehensive and precise terminology for software watermarking. In this paper, we attempt to fill that gap by giving distinctive names for the various protective functions served by software watermarks: Validation Mark, Licensing Mark, Authorship Mark and Fingerprinting Mark. We identify the desirable properties and specific vulnerabilities of each type of watermark, and we illustrate ...

**Keywords:** authentication, fingerprint, software authorship, software licensing, steganography, watermark

**17 Protocol failure in the escrowed encryption standard**

Matt Blaze

 November 1994 **Proceedings of the 2nd ACM Conference on Computer and communications security CCS '94**

**Publisher:** ACM Press

Full text available:  pdf(953.18 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The Escrowed Encryption Standard (EES) defines a US Government family of cryptographic processors, popularly known as "Clipper" chips, intended to protect unclassified government and private-sector communications and data. A basic feature of key setup between pairs of EES processors involves the exchange of a "Law Enforcement Access Field" (LEAF) that contains an encrypted copy of the current session key. The LEAF is intended to facilitate government access to the cl ...

**18 Power Attack Resistant Cryptosystem Design: A Dynamic Voltage and Frequency Switching Approach** 

Shengqi Yang, Wayne Wolf, N. Vijaykrishnan, D. N. Serpanos, Yuan Xie

March 2005 **Proceedings of the conference on Design, Automation and Test in Europe - Volume 3 DATE '05**

**Publisher:** IEEE Computer Society

Full text available:  pdf(291.83 KB) Additional Information: [full citation](#), [abstract](#), [index terms](#)

A novel power attack resistant cryptosystem is presented in this paper. Security in digital computing and communication is becoming increasingly important. Design techniques that can protect cryptosystems from leaking information have been studied by several groups. Power attacks, which infer program behavior from observing power supply current into a processor core, are important forms of attacks. Various methods have been proposed to countermeasure the popular and efficient power attacks. Howe ...

**19 Privacy through pseudonymity in user-adaptive systems** 

 Alfred Kobsa, Jörg Schreck

May 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 2

**Publisher:** ACM Press

Full text available:  pdf(881.69 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

User-adaptive applications cater to the needs of each individual computer user, taking for example users' interests, level of expertise, preferences, perceptual and motoric abilities, and the usage environment into account. Central user modeling servers collect and process the information about users that different user-adaptive systems require to personalize their user interaction. Adaptive systems are generally better able to cater to users the more data their user modeling systems collect and ...

**Keywords:** Chaum mix, KQML, User modeling, access control, anonymity, encryption, personal information, personalization, privacy, pseudonymity, reference model, secrecy, security, user-adaptive systems

**20 Robust FPGA intellectual property protection through multiple small watermarks** 

 John Lach, William H. Mangione-Smith, Miodrag Potkonjak

June 1999 **Proceedings of the 36th ACM/IEEE conference on Design automation DAC '99**

**Publisher:** ACM Press

Full text available:  pdf(119.08 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

**Keywords:** field programmable gate array (FPGA), intellectual property protection, watermarking

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